



1998

THIS IS NORCO

The 1998 line of Norco bicycles reflects our commitment to quality, value, and above all performance.

We are fortunate to be based in an area surrounded by some of Canada's best mountain bike terrain. Our pro riders and R&D staff are dedicated to testing and refining our designs to maximize the performance of every model we build.

We have provided you with a brief description of our bicycle categories, and identified each with an icon. Please review each category as they are designed to help you identify the models that best fit your needs.



Full Suspension
series



Competition
series



Performance
series



Adventure
series



Expedition Elite
series



Expedition
series

From World Cup racing to "free riding" your favourite single track, the VPS Series of full suspension bikes deliver state of the art technology. They offer Variable Point Suspension (VPS), to customize geometry and rear wheel travel to meet your individual needs.

Westcoast inspired hardtail designs that excel in technical single track as well as fast fire roads. They remain true to our philosophy of function above fashion and focus on exceptional quality lightweight frame materials and components.

A comprehensive series of bikes for those who appreciate premium frames and components. A wide selection of aluminium, chromoly and full suspension models to choose from.

NORCO Adventure Series bikes deliver superior control, easy handling and reliability. When fun and freedom are your primary objective, Norco is your adventure cycle.

When undertaking a challenging journey or simply looking for a superior bike, you'll want to choose a Norco Expedition Elite. We offer two distinct styles with either an aerodynamic drop bar position or a comfortable upright bar setup.

It's easy to see why Norco Expedition Series models continue to be the wise choice for cyclists who want comfort, style and dependability. Their multi purpose ride is ideal for weekend excursions or urban commuting.



- Super-tough 6061 T-6 monocoque swing link full suspension frame, with 4" to 5.5" adjustable rear wheel travel.
- Active rear pivot performs consistently while pedaling, braking or coasting.
- Super-plush Rock Shox Coupe Deluxe shock with adjustable preload and rebound damping.
- Marzocchi JR. T triple clamp forks resist lateral flex and feature 110mm of bump travel.
- Gripshift ESP 9.0 SL shifters and rear derailleur designed for improved ergonomics, and a 1:1 actuation ratio for ultra responsive shifting.
- Formula front disc brake, with an external reservoir to reduce heat build up and brake fade.
- Race Face LP forged cranks for ultimate strength and stiffness.
- Super-tough Sun Rhino Light rims and Panaracer 26x2.1 Duster tires.
- Axiom Gravity riser bar and CNC shorty stem.



- Reynolds 853, air-hardened, heat-treated steel, main triangle with ultra light Fuji Stoutlight AFS stays and super tough investment cast dropouts.
- Marzocchi Bomber Z-2 BAM, with 75mm of travel and disc mounts.
- Gripshift ESP 9.0 SL shifters and rear derailleur, re-designed for easier cable changes, and a 1:1 actuation ratio for ultra responsive shifting.
- Formula front disc brake, with an external reservoir to reduce heat build up and brake fade.
- Race Face LP forged cranks for ultimate strength and stiffness.
- Axiom Anti Gravity handlebar, stem and seatpost,
- Shimano 747 SPD pedals.
- Panaracer Duster BFC tires, and Sun 0 Degree rims with ABT sides for unparalleled braking.



- Ultralight Easton "Elite" Taperwall tubing and AFS rear stays.
- Marzocchi Bomber Z-2 Atom Bomb suspension fork with 75mm travel, single adjustable hydraulic damper and external preload adjusters for easy trailside tuning.
- Race Face forged cranks with CNC chainrings for super-fast front shifts and quick power transfer.
- New Shimano XTR rear derailleur with roller guide and reverse spring tension, and Rapid Fire XTR shifters for flawless shifting performance.
- Shimano 535 SPD pedals, and powerful Shimano Deore XT V-brakes and levers.
- Sun 0 Degree rims with ABT sides, Shimano Deore XT hubs, DT Swiss butted spokes, and Panaracer Duster kevlar tires.



A new ride for 1998. Feel the difference you get with steel!

- Reynolds ultra light 631 air-hardened steel main triangle with butted stays and cold forged dropouts.
- Reduced stiction and 75mm of bump-bashing travel with the new Marzocchi Z-3 BAM light forks, super light Easton steertube, new CNC brace, and ultra stiff BAM alloy crown.
- Responsive Shimano Deore XT Rapid Fire Plus shifters, Shimano Deore LX 4 arm cranks, and a super-stiff profile for efficient power transfer.
- Ultra responsive stopping power with Shimano Deore XT V-brakes and LX levers.
- Durable lightweight wheels with Shimano LX hubs, Sun 0 Degree rims, DT double butted spokes and Panaracer Duster kevlar tires.
- Shimano 535 SPD pedals, and Axiom Anti Gravity handlebar, stem and seatpost.



- VPS (Variable Point Suspension) interrupted / active suspension design. Travel and geometry is adjustable from 2.8 -3.2" of rear wheel travel.
- Super oversize 50mm bi-oval downtube and 38mm toptube, durable and strong.
- Rock Shox Judy T2 suspension fork. Plush coil spring and MCU system provide 63mm of travel.
- Durable pivot hardware and "off the shelf" pivot bushings for easy maintenance.
- Shimano Deore LX V-brakes with MC-40 levers for on-demand stopping power.
- 24-speed drive train with Shimano Deore LX Rapid Fire shifters, Deore XT rear derailleur and new Shimano STX RC 4 arm cranks.
- Tough, lightweight Sun CR-18 double-wall rims with ABT sides.
- Axiom riser bar, stem and seatpost.



- The VPS-3 shares the same high performance frame as the VPS-2.
- VPS (Variable Point Suspension) interrupted / active suspension design. Travel and geometry is adjustable from 2 3/4 - 3 1/4" of rear wheel travel. Super oversize 50mm bi-oval downtube, and 38mm toptube produce a tough front end for free-riding and cross country performance.
- Rock Shox Indy C front suspension fork with adjustable preload and 63mm of travel.
- Rock Shox Strut Deluxe shock provides plush rear wheel travel and features adjustable spring preload for easy trail side tuning.
- Crisp shifting with Gripshift SRT 6.0 24-speed shifters, Shimano Deore LX rear derailleur and STX compact drive cranks.
- Powerful Shimano STX-RC V-brakes.
- Axiom riser bar, stem and seatpost.
- The performance wheel set includes Shimano STX RC hubs, Sun CR-18 double wall rims, stainless spokes and ground-hugging Panaracer Duster tires.



- Easton Reaction aluminum tube set with "AFS" seatstays to reduce frame flex during braking. Complete with a replaceable rear derailleur hanger.
- Shimano Deore XT rear derailleur with "LX" Rapid Fire plus levers for effortless shifts.
- New Shimano STX-RC 4 arm cranks provide quick, smooth chainring shifts and a stiff new profile.
- Shimano fully adjustable BL-MC 40 brake levers with "LX" V-brakes for powerful braking response.
- Light and strong Axiom handlebar, stem and seatpost.
- Comfortable and light weight Selle Italia Nitrox PD saddle.
- Sun CR-18 double wall rims, DT Swiss stainless spokes, and Panaracer Duster 26x 1.95" tires.



- New from Reynolds, the 1998 Sasquatch uses 525 double butted chromoly tubing. Reynolds 525 chromoly provides excellent fatigue life and a compliant, comfortable ride. The Sasquatch also features "AFS" seatstays and durable forged dropouts.
- Rock Shox Indy C suspension fork with externally adjustable preload and 63 mm travel.
- Make note of the new Shimano STX-RC Rapid Fire 24-speed shifters with optical gear display and the powerful Deore LX V-brakes.
- The new STX-RC 4 arm cranks shift effortlessly thanks to the patented tooth profiles and ramps.
- Proven reliability and performance from the Shimano Deore XT rear derailleur, STX RC hubs and cartridge bottom bracket.
- Selle Italia Nitrox PD saddle with and Axiom seatpost.
- Super tough Sun CR-18 double wall rims, stainless steel spokes and Panaracer Duster tires complete this off road rocket.



- Lightweight aluminum racing frame with a durable double-buttressed downtube, AFS seat stays and a replaceable rear derailleur hanger.
- Rock Shox Indy suspension fork with 50mm of travel and external preload dials for trailside tuning options.
- 24-speed drive train with Shimano Deore LX rear derailleur, STX compact drive cranks and Rapid Fire shifters.
- Powerful stopping with Shimano STX-RC V-brakes.
- Durable Sun CR-18 double-wall rims, stainless steel spokes and aggressive Panaracer Duster tires.
- Axiom handlebar, stem and seat post with a comfortable, lightweight Selle Italia Nitrox PD saddle.



Comfort and control that only a full suspension bike can deliver.

- Active suspension design with 2" of rear wheel travel and durable easy-to-service bushings at the pivots.
- Reliable Dynamount shock with an adjustable spring preload for custom tuning.
- Rock Shox Indy suspension fork with threadless steertube, 2" of travel and external preload adjusters.
- Shimano STX rear changer, Alivio cranks and Gripshift SRT 4.0 21-speed shifters.
- Stop on a dime with powerful Shimano STX-RC V-brakes.
- Rise bar with an Axiom threadless stem for a comfortable upright riding position.



Completely redesigned, the 1998 Bigfoot is built to last and perform!

- Rugged yet lightweight with a double-buttaed chromoly frame, Rock Shox Indy fork with 50mm of travel and external preload adjusters.
- 24-speed Shimano drive train with STX RC derailleurs and Rapid Fire shifters, Alivio Hyperdrive compact drive cranks and cartridge bottom bracket.
- Pure performance with powerful Shimano STX-RC V-brakes and tough Sun double-wall CR-18 rims.
- Oversize chromoly stem with a lightweight aluminum handlebar, and a new performance saddle from Stelle Italia.
- Colour: Dark Motte Blue, Red



The best value in a Rock Shox equipped mountain bike.

- Chromoly main tubes with dual tapered AFS stays and vertical dropouts for easy wheel installation.
- Rock Shox Indy fork provides 50mm of plush travel, plus easy-to-adjust preload dials for performance tuning.
- 21-speed drive train with Shimano Alivio rear changer, Gripshift shifters, Shimano C-90 compact drive cranks and cassette cogs.
- Ultra powerful Tektro forged V-brakes and levers.
- Tough Alex rims and aggressive tread Kenda Bear Track and Bear Claw tires.
- Comfortable racing saddle with micro-adjust seat post.



A no-nonsense performer on or off road.

- Chromoly main tubes, forks and AFS flex-resisting stays that give Shimano STX RC V-brakes superior stopping power in all weather conditions.
- Crisp shifting with the Shimano STX rear changer, 21-speed STX Rapid Fire levers, Shimano C-90 compact drive cranks and cartridge bottom bracket.
- Durable Alex rims and reliable quick-release hubs with rear cassette.
- Aggressive Bear Track and Bear Claw tires provide flawless traction off road.
- Colour: Matte Army Green, Orange, Gloss Olive



The best performance and value in a front suspension mountain bike. A must see!

- RST 281 suspension forks with 2.5" of bump-smoothing travel deliver added control and comfort.
- Lightweight sloping top tube frame, chromoly main tube and flex-fighting AFS seat stays.
- Shimano Acera X rear changer and Gripshift 21-speed shifters.
- Stop on demand with Tektro V-brakes and levers.
- Durable alloy rims, and quick-release front hub for easy transport.



Nothing at this price comes close to matching the value of the 1998 Bushpilot.

- Proven frame design features lightweight chromoly main tubes and forks.
- Powerful new Tektro forged V-brakes provide effortless braking response.
- Fast and easy gear changes with Gripshift 21-speed shifters, Shimano Alivio rear changer and triple cranks.
- Comfortable supersoft foam saddle with an alloy micro-adjust seat post.
- Shimano cartridge bottom bracket for carefree reliability.
- Durable wheel set with alloy quick-release hubs and aggressive tread Kenda tires.
- Colours: (Mens) Ink Blue, Jewel Green, Matte Burgundy (Ladies) Matte Burgundy





Performance at a price you can afford.

- Proven frame geometry with durable lightweight chromoly main tubes.
- Reliable Shimano drive train with an Acera rear derailleur, TY-30 cranks, Hyperglide cogs, and Shimano EZ-fire shifters.
- Quick-release front and rear wheels for easy transport and maintenance.
- Shimano C-90 cantilever brakes for reliable, responsive braking in all weather conditions.
- Comfortable supersoft foam saddle, and lightweight aluminum micro-adjust seat post.
- Colours: Matte Copper, Bright Green



Value-packed mountain bikes for men and ladies.

- Rugged frame design with super oversize tubes, and AFS stays for better braking performance.
- 21 Speed Shimano TY -30 wide range gearing will get you up and down the hills with ease.
- Tektro alloy cantilever brakes deliver powerful braking performance.
- Shimano triple cranks with patented tooth profiles.
- Convenient transport with a quick-release front wheel.
- Colours: (Mens) Yellow, Matte Steel, Chrome Black (Ladies) Matte Teal



A durable 18-speed bike packed with performance features.

- Oversize frame with AFS stays and sloping top tube for added clearance.
- Crisp gear changes with Gripshift shifters and Shimano derailleurs.
- Triple front cranks for gear versatility over a wide variety of terrain.
- Alloy rims and Tektro alloy cantilever brakes provide superior braking response and added safety.
- The 40-degree rise stem ensures a comfortable upright riding position.
- Aggressive tires provide added traction and braking control.
- Colours: Matte Red, Silver/Grey



A premium quality bicycle for commuting, touring or weekend adventures.

- Lightweight aluminum frame, with low rider mounts for a front rack.
- Comfort enhancing flex stem and suspension seat post.
- Easy ascents and no spinouts with the wide ratio Shimano Nexave 24-speed gearing.
- Fast gear changes with the new Nexave push button Rapid Fire shifters.
- Outstanding braking response with Shimano Nexave V-brakes and built-in power modulator.
- Durable alloy wheels with Shimano STX-RC hubs, and a tire tread that reduces rolling resistance without sacrificing traction.



The 1998 Avanti is designed to meet all your performance expedition needs.

- Sturdy and light expedition frame with chromoly main tubes, seat stays and forks.
- 24-speed drive train with ultimate street gearing, Sugino Fuse 500 cranks, Shimano Deore XT rear changer, and quick shifting Gripshift SRT 6.0 shifters.
- Maximum comfort and control with a flex stem and plush spring saddle.
- Safe and effective braking with powerful Shimano M280 V-brakes and built-in power modulator.
- Durable lightweight wheels with Shimano hubs and a new low rolling-resistance tire tread.



Monterey

A top-quality bike for the cyclist that demands performance and reliability.

- Lightweight chromoly main frame, seat stays and forks.
- Fast and easy shifting with a Shimano Deore LX rear changer and 21-speed Gripshift SRT 4.0 shifters.
- Reliable and efficient Shimano FC 500 cranks with a 48-tooth outer ring and cartridge bottom bracket.
- Maximum comfort and control with the new bump absorbing flex stem and super soft spring saddle.
- Shimano M280 V-brakes with power modulator for confident stops.



Firenza

An expedition frame design with a proven track record.

- Sturdy chromoly main tubes and forks.
- Flawless shifting response with 21-speed Shimano Rapid Fire shift levers and STX rear changer.
- Smooth shifting Shimano C-90 cranks with a reliable cartridge bottom bracket.
- Plush saddle with springs for added shock absorption and comfort.
- Powerful Shimano cantilever brakes.
- Adjustable rise stem for a custom riding position.





Arctic

Don't miss the affordable performance of this expedition bike.

- Chromoly main tubes and fork reduce weight and maximize frame strength.
- Shimano Alivio rear changer and Gripshift 21-speed shifters.
- Lightweight and durable alloy rims with quick-release front and rear hubs.
- Stop confidently with Shimano C-90 cantilever brakes.
- Enjoy comfortable upright riding with an adjustable rise stem and supersoft saddle.



Strikine

A stylish, lightweight alternative for men and ladies.

- Rugged expedition frame design with a chromoly main tube.
- Shimano 21-speed wide-ratio gearing, Acera rear derailleur and Gripshift 21-speed shifters for easy gear changes.
- High rise bar and stem provide a comfortable upright riding position.
- Superior braking response with alloy cantilever brakes.
- Quick-release front wheel for easy transportation.
- Colour: Ink Blue





A truly versatile bike with a unique blend of road and expedition components.

- Lightweight aluminum frame and chromoly fork, fully accessorized for mounting racks and bottle cages.
- Shimano RSX 21-speed STI shifter and brake lever combination, with a Shimano Deore XT rear changer.
- Truly a custom fit with alloy drop bars and adjustable rise stem.
- Easy reliable shifting with Shimano RSX triple cranks and cartridge bottom bracket.
- Rugged Araya TX-350 double-wall rims and smooth rolling 700x35c tires.



A high performance touring and expedition bike for the discerning cyclist.

- Premium quality expedition frame with chromoly main tubes, seat stays and forks.
- Low rider rack mounts on the front fork.
- 21-speed Shimano RSX STI drive train with an STX rear changer for fast, hesitation free, shifts.
- Powerful Shimano C-90 cantilever brakes.
- Rugged double-wall Araya TX-350 rims, Shimano hubs and smooth rolling 700x35c tires.

TECH STUFF MARZOCCHI

The 1998 Bombers are here and they are better than ever! Marzocchi has drastically reduced the weight over the entire line while still maintaining the strength, durability and reliability, and performance that the bomber's have become famous for.

The 1998 Bombers feature "BAM" (Bomber Aerospace Material) technology. The "BAM" material allows the use of a thinner wall thickness, and produces a fork that is lighter and stronger than those made with magnesium.

Also new on the JR. T, Atom Bomb and Z-2 BAM is the new negative travel design. Negative travel allows the fork to sit further into it's travel without taking up the overall travel amount. On high speed terrain where the rider un-weights the bike, floating over bumps and risers the fork extends into it's negative travel giving the rider up to 10 mm more travel for incredible shock absorption and comfort.

JR. T

- Triple clamp design provides the ultimate in torsional rigidity.
- speed sensitive piston rod valving and negative travel design provides superior performance over a wide range of terrain.
- Light weight alloy stantions, with "BAM" lower legs and crown
- 110 mm travel, 2087 g (4.6 lbs), with disc brake mounts.



Z-2 ATOM BOMB

- The lightest fork in the 1998 Bomber line up 1542g, (3.4lbs).
- Single hydraulic cartridge with ultra wide range adjustability and new negative travel design.
- Ultra light "BAM" crown, and lower legs with an Easton E70 steer tube.
- Torsionally rigid arch design with offset bolt pattern.
- 75 mm travel, no disc brake mounts.



Z-2 BAM

- Norco uses the Z-2 BAM with the optional Easton E70 steer tube. This keeps the weight close to the Atom Bomb with the added feature of disc brake mounts.
- Single hydraulic cartridge with ultra wide range adjustability and negative travel design.
- Externally adjustable preload with lower profile knobs for better frame clearance.
- Speed sensitive valving for predictable compression and rebound.
- 75 mm travel, with disk brake mounts.



Z-3 LIGHT

- Speed sensitive piston rod valving tunable for a wide range of terrain.
- Light weight Easton E 70 steer tube, "BAM" crown and lower legs.
- 65 mm travel, 1633 g (3.6 lbs), no disc brake mounts.



ROCK SHOX

Judy T-2

- Torsionally rigid monocoque magnesium lower tube assembly.
- Type 2 spring system utilizing a mcu/ coil spring combination in a stiction reducing oil bath.
- Upgradeable to a Judy XC with a cartridge and spring kit.
- External preload adjusters for easy tuning.
- 63 mm travel, 1450 g (3.25 lbs), no disc mounts.



Indy C

- Type 2 spring system utilizing a mcu/ coil spring combination in a stiction free oil bath.
- One piece magnesium lower tube assembly resists torsional flex and keeps you on line through the tight turns.
- Improved tire and mud clearance.
- Redesigned adjuster knobs for easy trail side tuning.
- 63 mm travel, 1450 g (3.25 lbs).



Indy S

- Duper plush elastomer spring system in an oil bath to reduce stiction.
- Torsionally rigid one piece magnesium lower tube assembly.
- Redesigned to deliver increased tire and mud clearance.
- 50 mm travel, 1500 g (3.3 lbs).



Rock shox rear shocks

The Rock Shox rear shocks on the VPS series have been custom tuned with the engineers at Rock Shock to get the most out of our full suspension designs.

Coupe Deluxe

- 6.5 inch version with 1.5 inches stroke.
- Super plush 700 lb silicon steel spring
- Indexed rebound damping adjustment.
- Adjustable preload.



Strut Deluxe

- Super stiff strut design resist side to side flex.
- Super plush silicon steel spring
- Adjustable preload.



TUBING

REYNOLDS

Reynolds has built on the success of their 853 tubing and developed a complete new line of steel tube sets.

Norco continues to use the air hardened 853 tube sets on our Team Issue. Unlike other steels, this alloy actually increases in strength in the critical joint areas as it cools from welding. This heat treated material delivers outstanding fatigue life, damage resistance, and ultra low weight.

The 1998 Rampage utilizes the new air hardened Reynolds 631 tube set. Like 853 the 631 material increases in strength at the joints after welding. It has an ultra high tensile strength and fatigue life and is comparable in weight to 853.

The Norco Sasquatch now uses Reynolds 525 frame tubes. The double butted 525 chromoly is seamless for improved strength. It provides a lively and compliant ride with an outstanding fatigue life.

EASTON

Easton continues to be the worlds leader in aluminum bicycle frame tubing. Easton taperwall tubes have been engineered to be light and strong. Weight reduction and a lively, resilient ride feel has made easton one of the most popular materials for high performance, competition frame sets.

All Norco aluminum frames use replaceable rear derailleur hangers. They are designed to breakaway in the result of an accident or crash. This saves you from an expensive frame repair or replacement.



Norco hardtail mountain bikes all benefit from our "AFS" AntiFlex Seat stays. The curved stays resist lateral flex and brake stud deflection associated with today's powerful V-Brake system. They are more than 15% stiffer than standard stays and result in more responsive braking performance.

GRIPSHIFT:

Gripshift has further refined their "ESP" shifting systems for 1998.

The 1:1 actuation ratio results in faster cable pull, and therefore, faster more accurate shifts under load.

The new 9.0 SL found on the team issue and VPS-1 have evolved with improved durability, and a secondary power spring for more defined positive shifts.

Gripshift has improved the ergonomics of all "ESP" and "SRT" shifters for 1998 for added comfort, control and shifting response.

V-BRAKES:

A few years ago Shimano set a new standard for braking performance with the release of their V-Brake technology. Norco has made wide use of V-Brakes throughout the 1998 line of bikes.

V-Brakes provide better modulation, and significantly more power than cantilever style brakes resulting in improved safety and overall braking performance.

The XTR and XT V-Brakes use a parallel push system which keeps the pads square to the rim through their full range of motion. This results in maximum pad contact with the rim and unparalleled stopping power.

New for 1998, the Nexave and M280 V-Brakes feature a built in power modulator. This unique feature is adjustable, and varies the power output of the brake. These are used primarily on expedition bikes, where traditional V-Brakes may be too powerful in certain situations.



Full suspension:

What is VPS? Answer: "Variable Point Suspension"

The 1998 VPS full suspension bikes from norco provide a multitude of performance tuning options. Dial in the bike for the terrain you are riding by varying the mounting position of the shock in the frame; this alters angles, rear wheel travel, and bb height. Tuning your full suspension bike has never been simpler.

• VPS-1

Performance characteristics and tuning.

Hole "a": hole "a" provides 5.5 inches of rear wheel travel and is best suited for free riding and descending. It provides the highest bb clear-

ance, and should be tuned with fork and rear shock sag.

Hole "b": hole "b" provides 4.1 inches of rear wheel travel and is best suited for cross country and all round riding conditions. It should be tuned with less fork and rear shock sag.

• VPS-2/VPS-3

Performance characteristics and tuning.

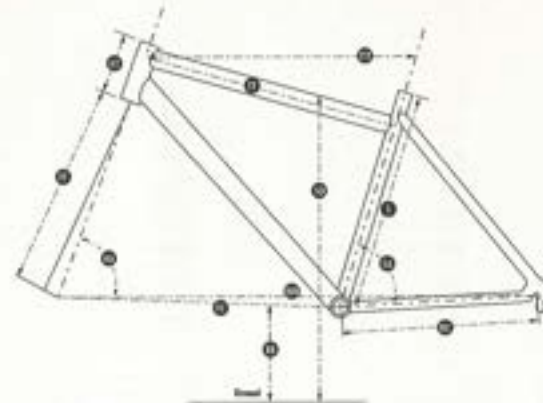
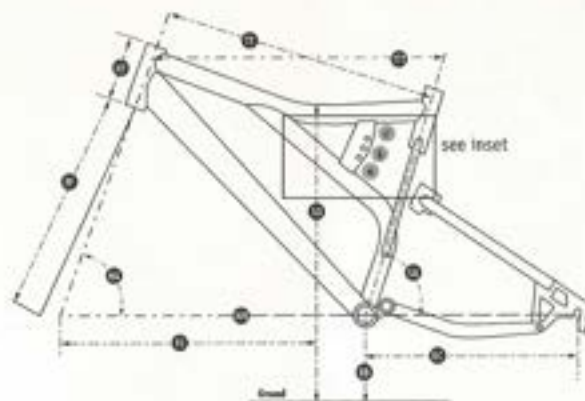
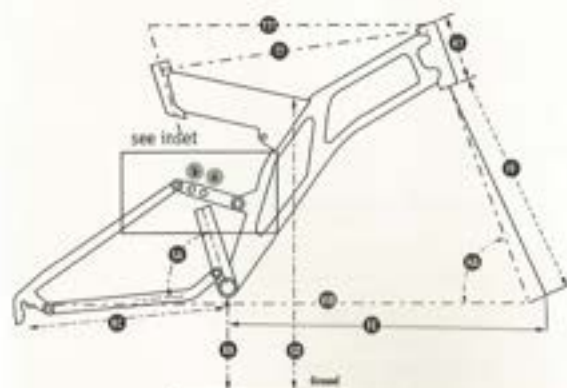
Hole "a": hole "a" provides the most rear wheel travel, and highest bottom bracket clearance. This position is best suited for riders who focus on rougher terrain and descending and should be tuned with ample rear shock sag.

Hole "b": hole "b" is best suited for all round riding with an equal focus

on climbing and descending. It should be tuned with some rear shock sag. Hole "c": hole "c" is the ideal position for cross country applications. It should be tuned with minimal sag to maintain a performance oriented head tube angle, and will provide a more stable ride due to the lower bottom bracket height.

Hard tails:

Norco hard tail designs have evolved from years of racing and riding in the rugged west coast mountains. They are differentiated from others by their taller bottom brackets, long toptubes, and long head tubes. The result is a frame that delivers the handling and control required to tackle the world cup circuit, as well as your favorite local trails.



VPS-1 GEOMETRY			
	mm/inch	mm/inch	mm/inch
S	small	medium	large
TT	539/21.2	571/22.5	597/23.5
TTT	561/22.0	591/23.3	606/23.9
HT	137/5.4	137/5.4	137/5.4
RC	430/16.9	430/16.9	430/16.9
FC	654/25.7	670/26.4	684/26.9
WB	1084/42.7	1100/43.3	1114/43.9
FF	485/19.1	485/19.1	485/19.1
*BB	365/14.4	365/14.4	365/14.4
*HA	70°	70°	70°
*SA	72.5°	72°	72°
SD	750/29.9	760/30.0	770/30.2

* Geometry based on hole "A"

VPS-2, VPS-3 GEOMETRY			
	mm/inch	mm/inch	mm/inch
S	small	medium	large
TT	540/21.2	570/22.4	596/23.5
TTT	560/22	590/23.2	615/24.2
HT	116/4.6	130/5.1	155/6.1
RC	430/16.9	430/16.9	430/16.9
FC	619/24.3	649/25.6	675/26.6
WB	1048/41.3	1079/42.5	1105/43.5
FF	437/17.2	437/17.2	437/17.2
*BB	325/12.8	325/12.8	325/12.8
*HA	71°	71°	71°
*SA	73°	73°	73°
SD	735/28.9	745/29.3	755/29.7

* Geometry based on hole "A"

COMPETITION HARDTAIL GEOMETRY					
	mm/inch	mm/inch	mm/inch	mm/inch	mm/inch
S	381/15	435/17	475/18.5	510/20	560/22
TT	540/21.3	543/21.4	564/22.2	588/23.2	610/24.0
TTT	562/22.1	565/22.2	590/23.2	612/24.1	630/24.8
HT	100/3.9	116/4.6	130/5.1	145/5.7	166/6.5
RC	425/16.7	425/16.7	425/16.7	425/16.7	425/16.7
FC	623/24.5	625/24.6	641/25.2	661/26.0	680/26.8
WB	1046/41.2	1049/41.3	1064/41.9	1083/42.6	1104/43.5
FF	437/17.2	437/17.2	437/17.2	437/17.2	437/17.2
BB	305/12	305/12	305/12	305/12	305/12
HA	70.5°	71°	71°	71°	71°
SA	74°	74°	73°	72.5°	72.5°
SD	685/26.9	725/28.5	752/29.6	778/30.6	818/32.2

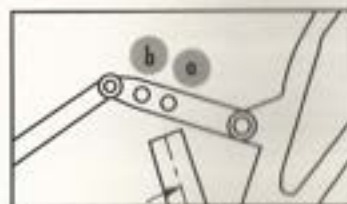
S= SEAT TUBE LENGTH / SIZE
TT= TOP TUBE (center-center)

RC= CHAIN STAYS
FC= FRONT CENTER

WB= WHEEL BASE
FF= FRONT FORK LENGTH + HEADSET

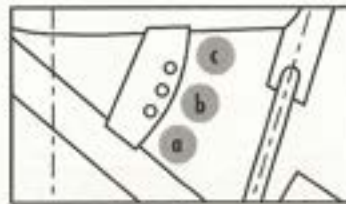
BB= BOTTOM BRACKET HEIGHT
HA= HEAD TUBE ANGLE

SA= SEAT TUBE ANGLE
SD= STANDOVER HEIGHT



VPS-1 Variable travel & geometry			
Hole	BB	HA	Rear travel
	mm/°	deg	mm/°
a	365/14.4	70	139/5.5
b	345/13.6	68.2	104/4.1

Note: By changing to a shorter travel front fork (2.5-3 in.), head angles will increase 1-2 degrees, and bb height will drop 1/2-1 in.



VPS-2 / VPS-3 Variable travel & geometry			
Hole	BB	HA	Rear travel
	mm/°	deg	mm/°
a	325/12.8	71	81/3.2
b	321/12.6	70.5	76/3.0
c	315/12.4	70	71/2.8

	TEAM ISSUE	VPS-1	TORRENT	RAMPAGE	VPS-2	VPS-3	NITRO	SASQUATCH	MAGNUM	VOLTAGE	BIGFOOT	BERTETTA	KOKAMEE
Frame	Reynolds 853 main tubes, Fuji Stout light AFS stays, Investment cast dropouts	Monocoque 6061 Aluminum, Swing link full suspension, VPS variable point suspension	Easton Elite double butted, AFS tubular stays with replaceable hanger	Reynolds 631 air hardened steel. Double butted stays with forged dropouts	VPS variable point suspension frame with adjustable travel, Active design	VPS variable point suspension frame with adjustable travel, Active design	Easton Reaction double butted, AFS tubular stays with replaceable hanger	Reynolds 525 double butted Chromoly, Double butted stays w/forged dropouts.	2005 T6 Aluminum Double butted down tube, AFS tubular stays with replaceable hanger.	Chromoly Q/S full suspension frame, Dynamount coil over/oil damped rear shock, replaceable BB bushings.	Chromoly double butted frame, AFS Chromoly stays, Forged dropouts	Chromoly Q/S main tubes, Dual tapered AFS stays, Semi forged vertical dropouts	Chromoly Q/S main tubes, Dual tapered AFS stays, Semi forged vertical dropouts
	Frame: 1850 Bike: 24.95lb	Frame: 3350 g Bike: 32.45 lb	Frame: 1600g Bike: 23.5lb	Frame: 1950g Bike: 25.45lb	Frame: 3233g Bike: 29.5lb	Frame: 3233g Bike: 29.5lb	Frame: 1725g Bike: 24.75lb	Frame: 2150g Bike: 25.95lb					
Fork	Marzocchi Bomber Z-2, 75 mm travel	Marzocchi MR 2 JR triple clamp, 110 mm travel	Marzocchi Z-2 Atom Bomb, 75 mm travel	Marzocchi Bomber Z-3, BAM light, 75 mm travel	Rock Shox Judy T-2, 63 mm travel	Rock Shox Judy C, 63 mm travel	Rock Shox Judy T-2, 63 mm travel	Rock Shox Judy C, 63 mm travel	Rock Shox Indy S, 50 mm travel.	Rock Shox Indy S, 50 mm travel.	Rock Shox Indy S, 50 mm travel.	Rock Shox Indy S, 50 mm travel.	Chromoly tapered blades
Headset	Dia-Compe AC Cartridge	Dia-Compe AC Cartridge	Dia-Compe AC Cartridge	Dia-Compe SAS Ahead	Dia-Compe STS Ahead	Dia-Compe SE Ahead	Dia-Compe STS Ahead	Dia-Compe SE Ahead	Dia-Compe SE Ahead	Dia-Compe SE Ahead	Satin 1 1/8"	Satin 1"	BED 1"
Crankset	Race Face Forged/CNC, 22-32-44T	Race Face Forged/CNC, 22-32-44T	Race Face Forged/CNC, 22-32-44T	Shimano Deore LX 22-32-42T	Shimano STX RC 4 arm 22-32-42 T	Shimano STX 22-32-42T	Shimano STX RC 4 arm 22-32-42 T	Shimano STX RC 4 arm 22-32-42 T	Shimano Alivio 24-32-42T	Shimano Alivio 24-32-42T	Shimano C-90 24-32-42T	Shimano C-90 24-32-42T	Shimano C-90 24-32-42T
Bottom Bracket	Shimano UN-72, 68 / 107	Shimano UN-72, 68 / 110	Shimano UN-72, 68 / 107	Shimano UN-52 68/110	Shimano LP-26 73/110	Shimano LP-26 73/110	Shimano LP-26 68/110	Shimano LP-26 68/110	Shimano LP-26 68/110	Shimano LP-26	Shimano LP-26	Shimano LP-26	Shimano LP-26
Pedals	Shimano 747	Shimano 636	Shimano S35	Shimano S35	Shimano S35	Victor Satin	Victor Satin	Victor Satin	Victor Satin	Victor Resin	Victor Satin	Victor Resin	Victor Resin
Chain	Sachs PC-61	Sachs PC-61	Sachs PC-61	Sachs PC-61	Sachs PC-61	Sachs PC-61	Sachs PC-61	Sachs PC-61	Sachs PC-61	KMC UG-50	KMC SS 91	KMC UG-50	KMC UG-50
Freewheel	Shimano XTR 11-30T, 8 speed	Shimano XTR 11-30T, 8 speed	Shimano XT 11-30, 8 speed	Shimano HG 11-30T, 8 speed	Shimano HG 11-30T, 8 speed	Shimano HG 11-30T, 8 speed	Shimano HG 11-30T, 8 speed	Shimano HG 11-30T, 8 speed	Shimano HG 11-30T, 8 speed	Shimano HG 11-28, 7 speed	Shimano HG 11-28T, 8 speed	Shimano HG 11-28, 7 speed	Shimano HG 11-28, 7 speed
Front Derailleur	Shimano XTR	Shimano XT down pull.	Shimano Deore XT	Shimano Deore XT	Shimano STX RC 34.9	Shimano STX RC 34.9	Shimano STX RC 31.8	Shimano STX RC 28.6	Shimano STX RC 31.8	Shimano Acera	Shimano STX RC 28.6	Shimano C-90 28.6	Shimano Acera 28.6
Rear Derailleur	Gripshift ESP 9.0 SL	Gripshift ESP 9.0 SL	Shimano XTR 951	Shimano Deore XT	Shimano Deore XT	Shimano Deore LX	Shimano Deore XT	Shimano Deore XT	Shimano Deore LX	Shimano STX	Shimano STX RC	Shimano Alivio	Shimano STX
Shifters	Gripshift ESP 9.0 SL	Gripshift ESP 9.0 SL	Shimano XTR Rapidfire	Shimano XT Rapidfire	Shimano LX Rapidfire	Gripshift SRT-6.0 8 spd	Shimano LX Rapidfire	Shimano MC-41 Rapidfire	Shimano MC-38 Rapidfire	Gripshift SRT 4.0 7 sp	Shimano MC-38 Rapidfire	Gripshift MXR 170	Shimano STX Rapidfire
Bar	Axiom butted 180 g	Axiom Gravity Riser bar	Axiom butted 180 g	Axiom butted 180 g	Axiom Riser	Axiom Riser	Axiom butted 180 g	Axiom butted 180 g	Axiom 220 g	Satin Riser	Aluminum flat bar	Satin flat bar	Satin flat bar
Stem	Axiom Pro Threadless	Axiom Gravity CNC shorty	Axiom Pro Threadless	Axiom Pro Threadless	Axiom Comp Threadless	Axiom Comp Threadless	Axiom Comp Threadless	Axiom Comp Threadless	Axiom Comp Threadless	Axiom Comp Threadless	Chromoly 10° satin	Satin 25° rise	Satin 25° rise
Brakes	FF: Formula disc. RR: XTR	FF: formula disc. RR: XTR	Shimano XT V-brake	Shimano XT	Shimano LX V-brake	Shimano STX V-brake	Shimano LX V-brake	Shimano LX V-brake	Shimano STX V-brake	Shimano STX V-brake	Shimano STX V-brake	Tektro 823 V-brakes	Shimano STX V-brake
Brake Levers	Formula / XTR	Formula / XTR	Shimano XTR	Shimano LX V-brake	Shimano STX RC	Tektro 377 V-brake	Shimano STX RC	Tektro 377 V-brake	Tektro 377 V-brake	Tektro 377 V-brake	Tektro 377 V-brake	Tektro 377 V-brake	Tektro 378 V-brake
Hubs	FF: formula disc. RR: XTR	FF: formula disc. RR: XTR	Shimano Deore XT	Shimano Deore XT	Shimano STX RC	Shimano STX RC	Shimano STX RC	Shimano STX RC	O/S Alloy 8-spd	O/S Alloy 7-spd	O/S Alloy 8-spd	Formula Alloy Coz Q/R	O/S Alloy 7-spd
Rims	SUN 0 degree 32h	SUN Rhino Lite 32h	SUN 0 degree 32h	SUN 0 degree 32h	SUN CR-18 double wall	SUN CR-18 double wall	SUN CR-18 double wall	SUN CR-18 double wall	SUN CR-18 double wall	Alex 36 hole	SUN CR-18 double wall	Alex 36 hole	Alex 36 hole
Spokes	Revolution/Alpine (DT)	Revolution/Alpine (DT)	DT double butted	DT double butted	DT Stainless	Stainless 2.0	DT Stainless	Stainless 2.0	Stainless 2.0	Stainless 2.0	Stainless 2.0	UCP, 14G"	UCP, 14G"
Front & Rear Tires	Panaracer Duster KEY, 26 x 1.95"	Panaracer Duster KEY 26 x 2.1"	Panaracer Duster KEY, 26 x 1.95"	Panaracer Duster KEY, 26 x 1.95"	Panaracer Duster 26x1.95	Panaracer Duster 26x1.95	Panaracer Duster 26x1.95	Panaracer Duster 26x1.95	Panaracer Duster 26x1.95	Kenda Bearclaw and Beartrack	Kenda Bearclaw and Beartrack	Kenda Bearclaw and Beartrack	Kenda Bearclaw and Beartrack
Saddle	SI Nitrox	SI Nitrox	SI Nitrox	SI Nitrox	SI Nitrox	SI Nitrox	SI Nitrox	SI Nitrox	SI Nitrox	Velo MTB	SI Nitrox	Velo MTB	Velo MTB
Seatpost	Axiom Pro	Axiom Pro	Axiom Pro	Axiom Pro	Axiom Comp	Axiom Comp	Axiom Comp	Axiom Comp	Axiom Comp	Alloy micro adjust	Polygon micro adj.	Alloy micro adjust	Alloy micro adjust
Colors	Yellow	Black/Orange	Line	Orange	Yellow/ Black	Orange/ Black	Bright Green	Yellow	Matte Army Green	Orange/Black	Matte blue, red	Matte Bright Green	Orange/Olive, Matte Army
Sizes	15,17,18.5,20,22"	S,M,L	15,17,18.5,20,22"	15,17,18.5,20,22"	S,M,L	S,M,L	15,17,18.5,20,22"	15,17,18.5,20,22"	15,17,18.5,20,22"	16,18,20	15,17,18.5,20,22"	15,17,18.5,20,22"	16,18,20,22"

	REACTOR	BUSHPILOT	KATMANDU	MOUNTAINEER	CHEROKEE	AXIA	AKANTI	MONTEREY	FIRENZA	ARCTIC	STIKINE	TERRENE	ALTERES
Frame	Chromoly 34.9mm D-tube, AFS seat stays, Semi forged vertical dropouts	Chromoly 34.9mm D-tube, Chromoly outer butted seat tube, AFS seat stays, Semi forged vertical dropouts	Chromoly 34.9mm D-tube, Chromoly outer butted seat tube, AFS seat stays, Semi forged vertical dropouts	O/S 39mm D-tube, 34.9mm T-tube, AFS seat stays	O/S 39mm D-tube, 34.9mm T-tube, AFS seat stays	7005 Aluminum Trekking frame, Vertical dropouts, Replaceable hanger	Chromoly main tubes & seat stays, Vertical dropouts, Internal rack mounts	Chromoly main tubes & seat stays, Vertical dropouts, Internal rack mounts	Chromoly main tubes, Trekking geometry, Vertical dropouts, Internal rack mounts	Chromoly main tubes, Trekking geometry, Vertical dropouts, Internal rack mounts	Chromoly down tube, Outer butted seat tube, Vertical dropouts, Internal rack mounts	7005 Aluminum Trekking frame, Vertical dropouts, Replaceable hanger	Chromoly main tubes & seat stays, Vertical dropouts, Internal rack mounts
Fork	RST 281 suspension fork 2.5" travel	Chromoly Tapered Blades	Long Radius Tapered Blades	Long Radius Tapered Blades	Long Radius Tapered Blades	Chromoly Long Radius 700c	Chromoly Long Radius 700c	Chromoly Long Radius 700c	Chromoly Long Radius 700c	Chromoly Long Radius 700c	Long Radius 700c	Chromoly Long Radius 700c	Chromoly Long Radius 700c
Headset	BED 1"	BED 1"	BED 1"	BED 1"	BED 1"	1" sealed mech	1" sealed mech	1" sealed mech	1" BED"	1" BED"	1" BED"	1" sealed mech	1" sealed mech
Cranks	Shimano TY-30 48-36-28T	Shimano TY-30 48-36-28T	Shimano TY-30 48-36-28T	Shimano TY-30 48-36-28T	Prowheel Silver arm. 48-38-28T	Shimano Nexave 28-38-48T	Sugino Fuse 500 26-36-46T	Shimano C-500 28-38-48T	Shimano C-90 24-32-42T	Shimano TY-30 48-36-28T	Shimano TY-30 48-36-28T	Shimano RSX 46-36-26T	Shimano RSX 46-36-26T
Bottom Bracket	3-PCCE 3s	Shimano cartridge	3-PCCE 3s	3-PCCE 3s	3-PCCE	Shimano LP-26	Shimano LP-26	Shimano LP-26	Shimano C-90 cartridge	Shimano cartridge	3-PCW 3s	Shimano LP-26	Shimano LP-26
Pedals	Victor 893	Victor 893	Victor 893	Victor 893	Victor 893	Victor Satin	Victor Satin	Victor Satin	Victor 893	Victor 893	Victor 893	Victor Satin	Victor Satin
Chain	KMC UG 50	KMC UG 50	KMC UG 50	KMC UG 50	KMC UG 50	Sachs PC-41	Sachs PC-41	KMC UG 50	KMC UG 50	KMC UG 50	KMC UG 50	Sachs PC-41	Sachs PC-41
Freewheel	Shimano HG-37 14-28T 7-spd	Shimano HG-37 14-28T 7-spd	Shimano HG-37 14-28T 7-spd	Shimano HG-37 14-28T 7-spd	Shimano 14-28T 6-spd	Shimano HG-60 11-30T 8-spd	Shimano HG-60 11-30T 8-spd	Shimano C-90 cst. 11-28T	Shimano C-90 cst. 11-28T	Shimano HG-37 14-28T 7-spd	Shimano HG-37 14-28T 7-spd	Shimano C-90 cst. 11-28T	Shimano C-90 cst. 11-28T
Front Derailleur	Shimano TY-30 down pull	Shimano TY-30 top pull	Shimano TY-30 top pull	Shimano TY-30 down pull	Shimano TY-15 down pull	Shimano Nexave	Shimano C-500	Shimano C-500	Shimano C-90	Shimano TY-32 down pull	Shimano TY-32 down pull	Shimano RSX down pull	Shimano RSX down pull
Rear Derailleur	Shimano Acera-X	Shimano Alivio	Shimano Acera-X	Shimano TY-30	Shimano TY-22	Shimano Nexave	Shimano Deore XT	Shimano Deore LX	Shimano STX	Shimano Alivio	Shimano Acera-X	Shimano Deore XT	Shimano STX
Shifters	Gripshift MRX-170 7-spd	Gripshift MRX-170 7-spd	Shimano EZ Fire 21 spd	Gripshift MRX-170 7-spd	Gripshift MRX-170 6-spd	Shimano Nexave R-fire	Gripshift SRT 6.0 8-spd	Gripshift SRT 4.0 7-spd	Shimano MC-37 R/fire 7-spd	Gripshift MRX-170 7-spd	Shimano EX-fire 7-spd	Shimano RSX STI road levers	Shimano RSX STI road levers
Bar	Satin flat bar	Satin flat bar	Satin flat bar	Satin flat bar	Satin flat bar	Alloy satin	Alloy satin	Alloy satin	Satin flat bar	Satin riser bar	Satin riser bar	Alloy 430 mm road bars	Alloy 430 mm road bars
Stem	Satin 1" 40° rise"	Satin 1" 25° rise"	Satin 1" 40° rise"	Satin 1" 40° rise"	Satin 1" 40° rise"	JD-flex stem	JD-flex stem	JD-flex stem	Alloy micro adjustable stem	Satin micro adjustable stem	High rise 1"	Alloy micro adjustable stem	Alloy micro adjustable stem
Brakes	Tektro B23A V-brakes	Tektro B23A V-brakes	Shimano C90 cantilevers	Tektro 990 cantilevers	Tektro 990 cantilevers	Shimano Nexave V-brks	Shimano M-280 V-brakes	Shimano M-280 V-brakes	Shimano C-90 cantilevers	Shimano C-90 cantilevers	Tektro 990 A cantilevers	Shimano Alivio cant.	Shimano C-90 cantilevers
Brake Levers	Tektro 377A V-brake lvs	Tektro 377A V-brake lvs	Shimano EF-20 combo	Tektro 371 AP Alloy	Tektro 371 AP Alloy	Shimano Nexave combo	Shimano M-280 V-brake	Tektro 377 A V-brake levers	Tektro 371A levers	Tektro 371A levers	Tektro 371A levers	Shimano RSX STI	Shimano RSX STI
Front & Rear Hubs	Satin Q/R front/rear	Alloy Q/R front/rear	Satin Q/R front/rear	BED steel, Q/R front"	BED steel	Shimano STX-RC	Shimano STX-RC	Alloy cst. Q/R front/rear	Alloy cst. Q/R front/rear	Alloy Q/R front and rear	BED steel, Q/R front and rear	Shimano Alivio	Shimano Alivio
Rims	26" alloy 36H	Alex X-101 alloy 36H	26" alloy 36H	26" alloy 36H	26" alloy 36H	700c alloy 36H	700c alloy 36H	700c alloy 36H	700c alloy 36H	700c alloy 36H	700c alloy 36H	Araya TX 350 doublewall	Araya TX 350 doublewall
Spokes	14g UCP	14 g UCP	14 g UCP	14 g UCP	14 g UCP	14g UCP	14g UCP	14g UCP	14g UCP	14g UCP	14g UCP	14g stainless	14g stainless
Front & Rear Tires	Off Road 26x1.95	Kenda Bearclaw Beartrack	Off Road 26x1.95	Off Road 26x1.95	Off Road 26x1.95	Kenda skinnwall 700x38c	Kenda skinnwall 700x38c	Kenda skinnwall 700x38c	Kenda skinnwall 700x38c	Kenda skinnwall 700x38c	Kenda K-180 700x38c	Kenda skinnwall 700x35c	Kenda skinnwall 700x35c
Saddle	Velo ATB ss	Velo ATB ss	Velo ATB ss	Vee ATB ss	Vee ATB ss	Velo w/spring	Velo w/spring	Velo w/spring	Velo w/spring	Velo Trekking	Vee ATB ss	SI Nitrox	SI Nitrox
Suspension	300 mm BED	Alloy micro adjust	Alloy micro adjust	300 mm BED	300 mm BED	JD-flex post	Polygon Micro adjust	Polygon Micro adjust	Alloy micro adjust	Alloy micro adjust	BED 300 mm	JD suspension post	Polygon Micro adjust
Colors	Chrome red / yellow fork	Blue, Green, Burgandy"	Matte Copper, Green"	Yellow, Steel, Chrome black"	Matte Red, Silver/Grey"	Matte Steel	Radiant Moss	Jewel Green	Matte Blue	Matte burgundy	Ink Blue	Matte Green	Radiant Moss
Sizes	15,16,18,20,22"	15,16,18,20,22"	15,16,18,20,22"	15,16,18,20,22"	15,16,18,20,22"	15,16,18,20,22"	16,18,20,22"	16,18,20,22"	16,18,20,22"	16,18,20,22"	16,18,20,22"	16,18,20,22"	16,18,20,22"

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